K950550 --- --

"This summary of 510(K) safety and effectiveness information is being submitted in accordance with the requirements of SMDA and 21 CFR §807.92."

SUMMARY OF SAFETY AND EFFECTIVENESS INFORMATION OF SUBSTANTIAL EQUIVALENCE ON THE MAIN TECHNICAL FEATURES BETWEEN THE XH-1 NEUROMUSCULAR STIMULATOR AND THE MYOPULSE NEUROMUSCULAR STIMULATOR

No.	Item	XH-1, a	Myopulse, a	Level of		
		powered	powered	Safety and		
		muscle	muscle	Effectiveness		
		1	stimulator	DITECTIVENESS		
1	Frequency 0.9 Hz		Equivalent	Fauivalent		
	Biphasic wave without		Equivalent			
-	direct current	Lquivalenc	Equivalenc	Equivalenc		
3	Wave Form	Similar	Similar	Equivalent		
	Pulse peak output	+110volts,		Equivalent		
_	voltage and current,	-110volts.		29411410		
	10,000 ohms load.	+11mAmp,	+9mAmp,			
	10,000 0	-11mAmp.	-11.5mAmp.			
5	Output frequency fixed.		Equivalent	Equivalent		
6	Output pulse-width		Equivalent			
	fixed under a constant					
	resistant load.					
7	Interpulse rest of	Equivalent	Equivalent	Equivalent		
	approximately 1.1					
	second.					
8	@ 0.9 Hz frequency,	Equivalent	Equivalent	Equivalent		
	continuous output	•	1			
9	Average output current,	0.18mAmp	0.013 mAmp	Equivalent*		
	10,000 ohms load.					
10	Frugal on electrical	Two AA	One 9volt	Equivalent		
	consumption	batteries,	batter. can			
		3volts,	operate			
		can	for			
		operate	350 hours.			
	1	for				
		700 hours.				
11	Electrode Coupling	Paper	Sponge	Equivalent		
	Medium	towel	moistened			
		moistened	with water	•		
		with water				
12	Function: to relax	Equivalent	Equivalent	Equivalent		
	muscle spasm	ļ				
13	History of clinical			Equivalent		
	usage	to present	to present			
14	Adverse effects are	Equivalent	Equivalent	Equivalent		
	not known.		1			
*Dangerous current levels are those above about 15 milliamps, but						
below 1 milliamp is considered completely safe to the human body						

below 1 milliamp is considered completely safe to the human body according to the Federal Engineering department associated with the National Electric Code and according to the State of California OSHA Consultation Group.

The 14 main technical features in the summary prove that the XH-1 Neuromuscular Stimulator is substantially equivalent, in terms of safety and effectiveness, to the Myopulse Neuromuscular Stimulator, which is a preamendment device marketed prior to May 28, 1976.

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January 17, 1995

COMPARISON CHART OF THE SIMILARITIES OF MAIN TECHNICAL FEATURES BETWEEN THE XH-1 NEUROMUSCULAR STIMULATOR AND OTHER ELECTRICAL MUSCLE STIMULATORS WITH 510(K) NUMBER

No.	Item	XH-1	Other Products	
1	Neuromuscular Stimulator as proprietary name	Equivalent	Those with equivalent proprietary names: K840346 K926510	
2	Frequency of 1 Hz	0.9 Hz	Those that can be adjusted to 1 Hz output: K850013 K893878 K893879	not same can device having only a 1 Hz outgut.
3	Interpulse resting time of approximately 1 second	1.1 second	Those that can be adjusted to 1-second off time: K893878 K893879 K926510	•
4	Pulses with continuous output	At 0.9 Hz, continuous output	Those that can be adjusted to continuous output: K840346 K926510	can have continuous

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